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SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

report in English on the Soviet military radio station which was being set up at Bernau as of 6 January 1958. The report includes data on the light and power supply and the electrical installations in the station in addition to a schematic drawing of the electrical supply and switch arrangements of the station. (3 pages)

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EAST GERMANY

MILITARY/AIR/ECONOMIC

SOVIET RADIO STATION AT BERNAU

(6 January 1958)

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1. At the northern limit of the town of BERNAU, between the roads leading on the one hand to LADEBURG and on the other to RUEDNITZ, a Soviet military radio station is being set up on the site of an old carrier-pigeon station once maintained by the Waffen-SS, and which for this reason bears the local name of "Taubenstation". The station is surrounded by a fence, and has two very high wireless masts visible from a considerable distance.

2. Light and Power Supply

The light and power requirements of the new station will come from the ROLLBERGE transformer station, which is at the moment waiting for a 160 kVA transformer which the Soviet authorities have undertaken to deliver in the absence of suitable transformers available from the VEB Energieversorgung.

The ROLLBERGE transformer station at present serves certain local public needs, but the VEB intention is to channel public supplies through another transformer station so that ROLLBERGE will have only the radio station to deal with.

Electrical installations in the new station are being carried out by the VEB Starkstrom-Anlagenbau-Berlin, BERLIN N 4, Schlegelstrasse 26/27.

3. Details so far known are as follows:-

(a) Transformer Station LADEBURG-ROLLBERGE

The incoming 10 kW overhead line passes through a high tension fuse 15 AR 10 to the 160 kVA transformer.

The low voltage 380/220 Volt passes through a low voltage fuse 200 Amp and leaves the station by underground cable. This cable has a length of 90 metres, and consists of 3 aluminium wires 185 mm^2 as conductors, and one aluminium wire 95 mm^2 as an earth conductor.

After crossing under the BERNAU-LADEBURG road, this cable continues for a distance of 550 metres as a low voltage overhead line of 4 x 185 mm^2 (aluminium).

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(b) Meter Box

The overhead line at the end of its 550 metres length passes into a small brick-built meter box at the perimeter fence of the radio station, access to the box being from the outside so that electricity officials do not need to enter the radio station. Behind the meter is a buss-bar with a 160 Amp fuse.

From this buss-bar two low voltage cables, each 80 metres in length, run into the station building. These two cables are respectively:-

(i) 3 x 35/16 mm^2 aluminium (60 Amp fuse).

(ii) 3 x 185/95 mm^2 aluminium (100 Amp fuse)

(c) Electrical Installations in the Station

The station switchboards are in the basement of the station. They are of cast-iron construction and are protected against damp. There are two buss-bars. From the first buss-bar 6 connections run, of which 3 have 25 Amp fuses and in all probability serve machine tools in the station repair shop, while the further 3 connections have 10 Amp fuses and serve lighting needs of the station.

From the second buss-bar run 4 connections with 60 Amp fuses. These connections are for heavy load requirements as follows:-

(i) Rectifier of 8 kW, believed to be for an accumulator charging station.

(ii) 3 regulating transformers, each of 40 kVA

The total load which could be demanded by this station is 137.7 kW, broken down as follows:-

4 - 5 machine tools	kW	6
22 lighting points		2.2
15 wall sockets		1.5
1 rectifier		8
3 regulating transformers, each of 40 kVA		120
		137.7 kW

The system can be loaded with 88 kW continuously if so desired.

4. At Appendix A, please find a schematic drawing of the electrical supply and switch arrangements.

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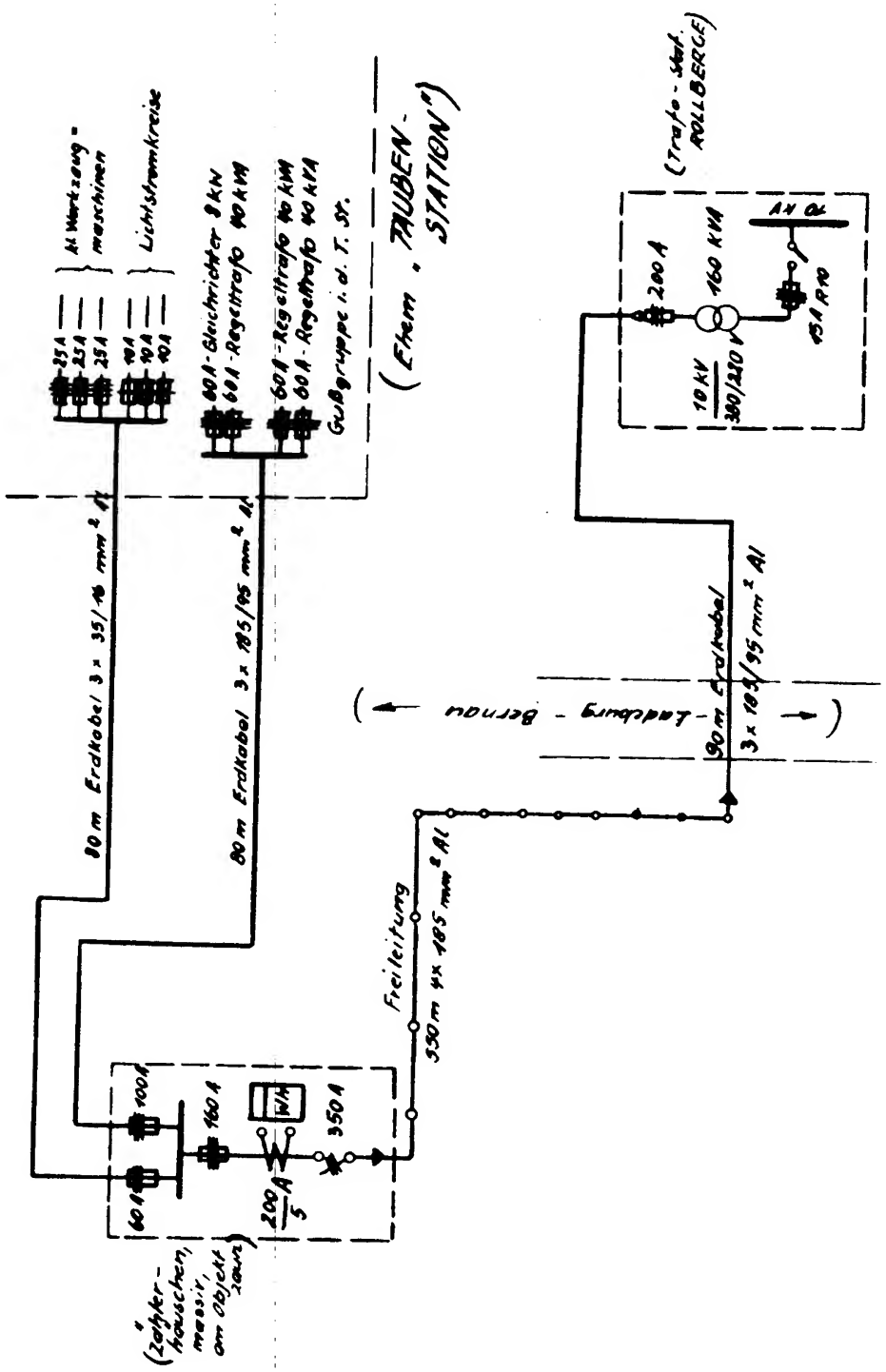

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